

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Noteborn et al.

Serial No.: 09/655,109

Filed: September 5, 2000

For: APOPTIN-ASSOCIATING PROTEIN

Confirmation No.: 7279

Examiner: J. Woitach

Group Art Unit: 1632

Attorney Docket No.: 2906-4995US

NOTICE OF EXPRESS MAILING

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the documents listed on attached Form PTO/SB/08 be considered by the Examiner and made of record. Copies of U.S. patents are <u>not</u> being submitted pursuant to M.P.E.P. 609 III A(2). Copies of foreign patent documents and non-patent literature are enclosed pursuant to 37 C.F.R. § 1.98(a)(2).

U.S. Patent Documents

U.S. Patent No.	Publication Date	<u>Patentee</u>
US-6,878,692	04-12-2005	Noteborn et al.
US-5,981,205	11-1999	Hemmings et al.
US-6,809,189 B2	10-26-2004	Noteborn et al.
US 2003/0105315 A1	06-05-2003	Specht et al.

Foreign Patent Documents

Document No.	Publication Date	<u>Patentee</u>
EP0921192A1	06-1999	Leadd B.V.
EP0924296A2	06-1999	Leadd B.V.

Other Documents

Zhuang et al., Apoptin, a Protein Derived from Chicken Anemia Virus, Induces p53-independent Apoptosis in Human Osteosarcoma Cells, Cancer Res, February 1995, pp, 486-89, Vol. 55, No. 3.

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Noteborn, Mathieu H.M., et al., "Simultaneous expression of recombinant baculovirusencoded chicken anaemia virus (CAV) proteins VP1 and VP2 is required for formation of the CAV-specific neutralizing epitope," Journal of General Virology, vol. 79, pp. 3073-3077 (1998).

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Teodoro, Jose G, et al, "Regulation of Apoptosis by Viral Gene Products," Journal of Virology, vol. 71, No 3, pp 1739-1746 (Mar. 1997).

Thompson, Craig B, "Apoptosis in the Pathogenesis and Treatment of Disease," Science, vol. 267, pp 1456-1462 (Mar. 10, 1995).

Strausberg, Robert, "qy85c09.x1 NCI_CGAP_Brn25 *Homo sapiens* cDNA clone Image:2018800 3', mRNA sequence," Jan. 7, 1999, Accession No. AI360308.

Zhao S., "Use of BAC End Sequences from Library RPCI-11 for Sequence-Ready Map building," March 15, 1999, ACCESSION NUMBER AQ382839.

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Benet et al., pp. 3-32, in The Pharmacological Basis of Therapeutics, 8th ed., McGraw-Hill, Inc., New York, 1990.

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Database GenEmbl on GenCore version 4.5, Accession No. AX015052, Oct. 1999.

Strausberg R. Database EST on GenCore version 4.5, Accession No. BE746443, Sep. 2000.

Danen-Van Oorschot et al., BCL-2 Stimulated Apoptin-induced Apoptosis, pp. 245-249 in Drug Resistance in Leukemia and Lymphoma III, ed. Kaspers et al., Kluwer Academic/Plenum Publishers, New York, 1999.

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Noteborn et al., Apoptin induces apoptosis in transformed cells specifically: Potentials for an antitumor therapy, Biogenic Amines, 1998, pp. 73-91, Vol. 15, No. 1.

Abstract XP-002140967, May 1999.

Abstract XP-002140968, May 1995.

Abstract XP-002140969, 2000.

McDonnell et al., "Implications of apoptotic cell death regulation in cancer therapy," Cancer Biology, 1995, pp. 53-60, vol. 6.

Mullersman et al., "The PHD finger: implications for chromatin-mediated transcriptional regulation," TIBS 20, Feb. 1995, pp. 56-59.

Jacobson et al., "Modifying chromatin and concepts of cancer," Chromosomes and expression mechanisms, pp. 175-184.

Lu et al., "A Novel Gene (PLU-1) Containing Highly Conserved Putative DNA/Chromatin Binding Motifs Is Specifically Up-regulated in Breast Cancer," The Journal of Biological Chemistry, 1999, pp. 15633-15645, Vol. 274, No. 22.

Zhuang et al., "Apoptin, a Protein Encoded by Chicken Anemia Virus, Induces Cell Death in Various Human Hematologic Malignant Cells in vitro," Leukemia, vol. 9, Suppl. 1, pp. S118-S120, 1995.

In compliance with the duty to disclose information material to patentability pursuant to 37 C.F.R. § 1.56, Applicants submit the following listed copending applications naming a common inventor(s):

Attorney Docket No.:

2183.01-4999US

Serial No.:

09/403,213

Filing Date:

6/22/2000

Title:

A GENE DELIVERY VEHICLE EXPRESSING THE

APOPTOSIS-INDUCING PROTEINS VP2 AND/OR APOPTIN

Attorney Docket No.:

2906-5008US

Serial No.:

09/555,981

Filing Date:

8/1/2000

Title:

MOLECULES INTERACTING WITH APOPTIN

Attorney Docket No.:

2906-4997US

Serial No.:

09/733,416

Filing Date:

12/8/2000

Title:

APOPTIN-ASSOCIATING PROTEIN

Attorney Docket No.:

2906-4922US

Serial No.:

09/740,676

Filing Date:

12/18/2000

Title:

CHICKEN ANEMIA VIRUS MUTANTS AND VACCINES AND

USES BASED ON THE VIRAL PROTEINS VP1, VP2, AND VP3 OR SEQUENCES OF THAT VIRUS CODING THEREFOR

Attorney Docket No.:

2906-4992US

Serial No.:

09/889,430

Filing Date:

1/17/2002

Title:

USE OF APOPTOSIS INDUCING AGENTS IN THE

TREATMENT OF (AUTO) IMMUNE DISEASES

Attorney Docket No.:

2906-5001.1US

Serial No.:

09/949,780

Filing Date:

9/10/2001

Title:

A DELIVERY METHOD FOR THE TUMOR SPECIFIC

APOPTOSIS INDUCING ACTIVITY OF APOPTIN

Attorney Docket No.: 2906-4996.1US

Serial No.: Filing Date:

10/083,849 10/19/2001

Title:

MODIFICATIONS OF APOPTIN

Attorney Docket No.: 2906-4819.1US Serial No.: 10/113,790

Serial No.: Filing Date:

3/29/2002

Title:

FUSION PROTEINS FOR SPECIFIC TREATMENT OF

CANCER AND AUTOIMMUNE DISEASES

Attorney Docket No.: 2906-5334US Serial No.: 10/126,474

Filing Date:

4/19/2002

Title:

APOPTOSIS INDUCING PROTEINACEOUS SUBSTANCE

Attorney Docket No.: 2906-4918.1US Serial No.: 10/256,041

Filing Date:

9/26/2002

Title:

CLONING OF CHICKEN ANEMIA VIRUS DNA

Attorney Docket No.: 2906-4992.1US Serial No.: 11/067,001

Filing Date:

2/25/2005

Title:

USE OF APOPTOSIS INDUCING AGENTS IN THE

TREATMENT OF (AUTO) IMMUNE DISEASES

This Information Disclosure Statement is believed to be filed before the mailing date of a first Office Action on the merits; therefore, no fee is due.

Respectfully submitted,

Allen C. Turner

Registration No. 33,041 Attorney for Applicant(s)

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Date: May 5, 2005

ACT/bv

Enclosures: Form PTO/SB/08

Copy of documents cited

Document in ProLaw

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO Complete if Known 09/655,109 INFORMATION DISCLOSURE Application Number Filing Date September 5, 2000 STATEMENT BY APPLICANT First Named Inventor Noteborn et al. Group Art Unit 1632 (use as many sheets as necessary) Examiner Name J. Woitach 2906-4995US Sheet of Attorney Docket Number

	1		1	Name of Determine on Application	
Examiner Initials *	Cite No. ¹	Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-6,878,692	04-12-2005	Noteborn et al.	
		US-5,981,205	11-1999	Hemmings et al.	
		US-6,809,189 B2	10-26-2004	Noteborn et al.	
		US- 2003/0105315 A1	06-05-2003	Specht et al.	
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	FOREIGN PATENT DOCUMENTS					
Examiner Cite No.1	Cite	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,	
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁶
		EP0921192A1	06-1999	Leadd B.V.		
		EP0924296A2	06-1999	Leadd B.V.		

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¹ Applicant's unique citation designation number (optional) . ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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	INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/655,109		
			Filing Date	September 5, 2000		
			First Named Inventor	Noteborn et al.		
			Group Art Unit	1632		
(use as many sheets as necessary)			necessary)	Examiner Name	J. Woitach	
	Sheet	2	of	4	Attorney Docket Number	2906-4995US

	NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Zhuang et al., Apoptin, a Protein Derived from Chicken Anemia Virus, Induces p53-independent Apoptosis in Human Osteosarcoma Cells, Cancer Res, February 1995, pp, 486-89, Vol. 55, No. 3.	
		Pietersen et al., Specific tumor-cell killing with adenovirus vectors containing the apoptin gene, Gene Therapy, 1999, pp. 882-92, Vol. 6.	
		Bellamy, Christopher O.C., et al., "Cell death in health and disease: the biology and regulation of apoptosis," Seminars in Cancer Biology, vol. 6, pp. 3-16 (1995).	
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		Danen-van Oorschot, et al., A.A.A.M., "BAG-1 inhibits p53-induced but not apoptin-induced apoptosis," Apoptosis, vol. 2, No. 4, pp 395-402 (1997).	
		Duke, Richard C., et al, "Cell Suicide in Health and Disease," Scientific American, pp 80-87 (Dec. 1996).	
		Noteborn, M.H.M., et al., "A Single Chicken Anemia Virus Protein Induces Apoptosis," Journal of Virology, vol. 68, No. 1, pp. 346-351 (Jan. 1994).	
		Noteborn, M.H.M., et al., "Characterization of Cloned Chicken Anemia Virus DNA That Contains All Elements for the Infectious Replication Cycle." Journal of Virology, vol. 65, No. 6, pp. 3131-3139 (Jun. 1991).	
		Noteborn, Mathieu H.M., et al, "Chicken Anemia Virus Induction of Apoptosis by a Single Protein of a Single-Stranded DNA Virus," Seminars in Virology. vol 8, pp 497-504 (1998).	

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Signature	Considered	J

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Noteborn, Mathieu H.M., et al., "Simultaneous expression of recombinant baculovirus-encoded chicken anaemia virus (CAV) proteins VP1 and VP2 is required for formation of the CAV-specific neutralizing epitope," Journal of General Virology, vol. 79, pp. 3073-3077 (1998).	
		Paulovich, Amanda G, et al, "When Checkpoints Fail," Cell, vol. 88, pp 315-321 (Feb. 7, 1997).	
		Steller Hermann, "Mechanisms and Genes of Cellular Suicide," Science, vol. 267, pp 1445-1449 (Mar. 10, 1995).	
		Teodoro, Jose G, et al, "Regulation of Apoptosis by Viral Gene Products," Journal of Virology, vol. 71, No 3, pp 1739-1746 (Mar. 1997).	
-		Thompson, Craig B, "Apoptosis in the Pathogenesis and Treatment of Disease," Science, vol. 267, pp 1456-1462 (Mar. 10, 1995).	
		Strausberg, Robert, "qy85c09.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone Image:2018800 3', mRNA sequence," Jan. 7, 1999, Accession No. Al360308.	
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		Benet et al., pp. 3-32, in The Pharmacological Basis of Therapeutics, 8th ed., McGraw-Hill, Inc., New York, 1990.	
-		Jain et al., Vascular and interstitial barriers to delivery of therapeutic agents in tumors, Cancer and Metastasis Reviews, 1990, pp. 253-266, Vol. 9.	
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		Dermer, Another Anniversary for the War on Cancer, Biotechnology, 1994, pp. 320, Vol. 12.	

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		Database GenEmbl on GenCore version 4.5, Accession No. AX015052, Oct. 1999.	
		Strausberg R. Database EST on GenCore version 4.5, Accession No. BE746443, Sep. 2000.	
.,.		Danen-Van Oorschot et al., BCL-2 Stimulated Apoptin-induced Apoptosis, pp. 245-249 in Drug Resistance in Leukemia and Lymphoma III, ed. Kaspers et al., Kluwer Academic/Plenum Publishers, New York, 1999.	
	†	Noteborn et al., Apoptin-induced apoptosis: potential for antitumor therapy, Drug Resistance Updates, 1998, pp. 99-103, Vol. 1.	
		Noteborn et al., Apoptin induces apoptosis in transformed cells specifically: Potentials for an antitumor therapy, Biogenic Amines, 1998, pp. 73-91, Vol. 15, No. 1.	
		Abstract XP-002140967, May 1999.	
		Abstract XP-002140968, May 1995.	
		Abstract XP-002140969, 2000.	
		McDonnell et al., "Implications of apoptotic cell death regulation in cancer therapy," Cancer Biology, 1995, pp. 53-60, vol. 6.	
		Mullersman et al., "The PHD finger: implications for chromatin-mediated transcriptional regulation," TIBS 20, Feb. 1995, pp. 56-59.	
		Jacobson et al., "Modifying chromatin and concepts of cancer," Chromosomes and expression mechanisms, pp. 175-184.	
		Lu et al., "A Novel Gene (PLU-1) Containing Highly Conserved Putative DNA/Chromatin Binding Motifs Is Specifically Upregulated in Breast Cancer," The Journal of Biological Chemistry, 1999, pp. 15633-15645, Vol. 274, No. 22.	
		Zhuang et al., "Apoptin, a Protein Encoded by Chicken Anemia Virus, Induces Cell Death in Various Human Hematologic Malignant Cells in vitro," Leukemia, vol. 9, Suppl. 1, pp. S118-S120, 1995.	

Examiner	Date	
Signature	Considered	

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